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(71) Applicant (for all designated States except US): **INFECTIO DIAGNOSTIC (I.D.I.) INC.** [CA/CA]; 2050 René-Lévesque Blvd., West, 4th Floor, Sainte-Foy, Quebec G1V 2K8 (CA).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BERGERON, Michel, G.** [CA/CA]; 1145 des Érables, Quebec, Quebec G2K 1T8 (CA). **BOISSINOT, Maurice** [CA/CA]; 109

Jean Bruchési, St-Augustin-de-Desmaures, Quebec G3A 2N2 (CA). **HULETSKY, Ann** [CA/CA]; 1231 des Pins Avenue, Sillery, Quebec G1S 4J3 (CA). **MÉNARD, Christian** [CA/CA]; 1174 du Pont, St-Lambert-de-Lévis, Quebec G0S 2W0 (CA). **OUELLETTE, Marc** [CA/CA]; 1035 de Ploermel, Sillery, Quebec G1S 3S1 (CA). **PI-CARD, François, J.** [CA/CA]; 1245 de la Sapinière, Cap-Rouge, Quebec G1Y 1A1 (CA). **ROY, Paul, H.** [US/CA]; 28 Charles Garnier, Loretteville, Quebec G2A 2X8 (CA).

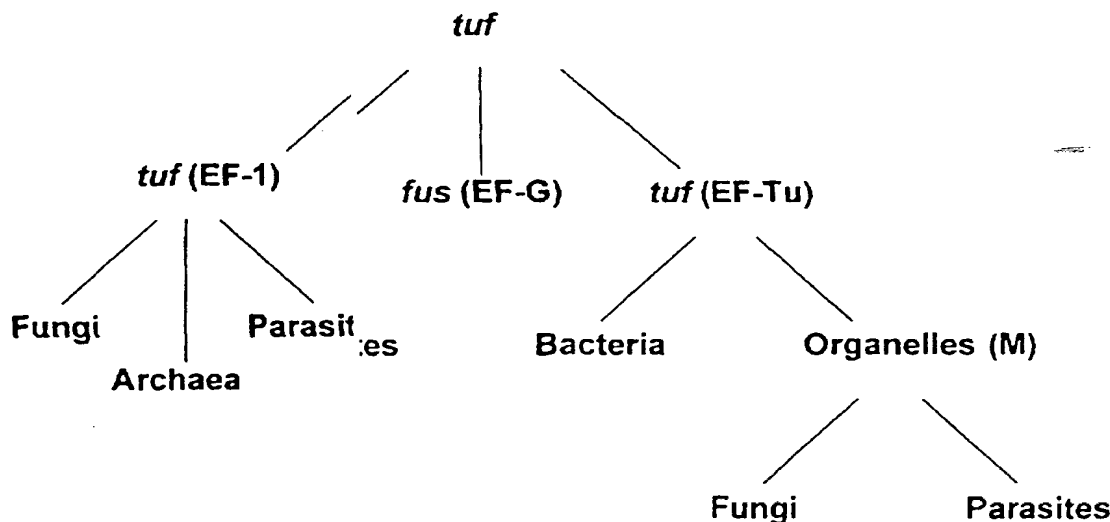
(74) Agents: **DUBUC, Jean, H.** et al.: Goudreau Gage Dubuc, The Stock Exchange Tower, 800 Place Victoria, Suite 3400, P.O. Box 242, Montreal, Quebec H4Z 1E9 (CA).

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(54) Title: HIGHLY CONSERVED GENES AND THEIR USE TO GENERATE PROBES AND PRIMERS FOR DETECTION OF MICROORGANISMS



(57) Abstract: Four highly conserved genes, encoding translation elongation factor Tu, translation elongation factor G, the catalytic subunit of proton-translocating ATPase and the RecA recombinase, are used to generate a sequence repertory or bank and species-specific, genus-specific, family-specific, group-specific and universal nucleic acid probes and amplification primers to rapidly detect and identify algal, archaeal, bacterial, fungal and parasitological microorganisms from specimens for diagnosis. The detection of associated antimicrobial agents resistance and toxin genes are also under the scope of the present invention.

WO 01/023604 A3